

Ammonia Gas Sensor

Product Data Sheet Model #SS21N8

2025. Ver 1.0

Applications & Features

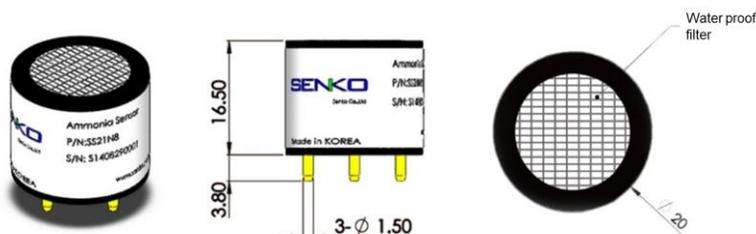
- Ideal for portable instrument
- Industrial safety (ambient air monitoring applications)
- Refrigeration facilities (food processing, etc.)
- Pharmaceuticals and cosmetics



Specifications

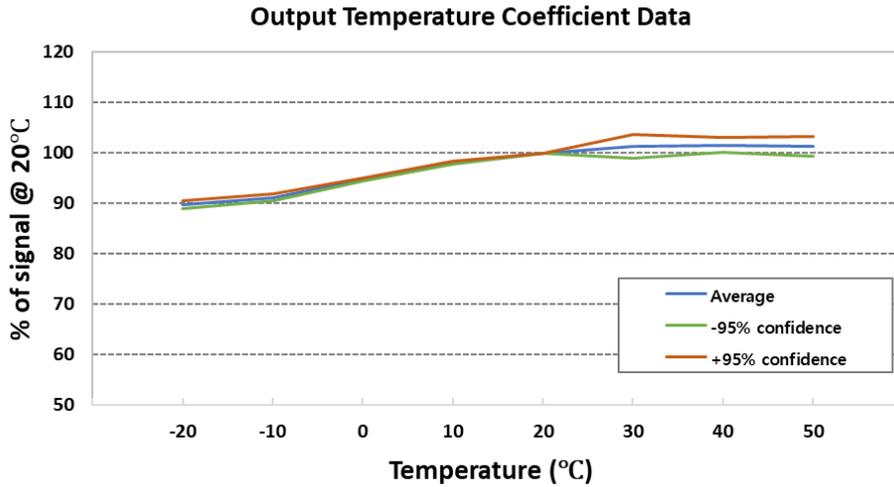
Performance Characteristics	
Output Signal	100±30 nA / ppm
Typical Baseline Range (pure air, @ 20°C)	±2 ppm NH ₃ equivalent
Response Time (T90)	< 30 seconds
Filter	None
Measurement Range	0-100 ppm
Maximum Overload	200 ppm
Linearity	Linear
Repeatability	< ±10% of signal
Recommended Load Resistor	10 ohms
Resolution (Electronics Dependent)	< 1 ppm typical
Bias Voltage	0 mV
Environmental	
Temperature Range Continuous	-20°C to +50°C
Pressure Range	800 to 1200 mbar
Operating Humidity Range	15% to 90% RH
Lifetime	
Long Term Output Drift	< 10% per annum
Recommended Storage Temp	0°C to 20°C
Expected Operating Life	> 24 months in air
Standard Warranty	24 months from date of dispatch
Intrinsic Safety Data	
Maximum at 200 ppm	50 µA
Maximum o/c Voltage	< 1.0 V
Maximum s/c Current	< 0.1 A

Dimension



Due to ongoing research and product improvement, specifications are subject to change without notice.

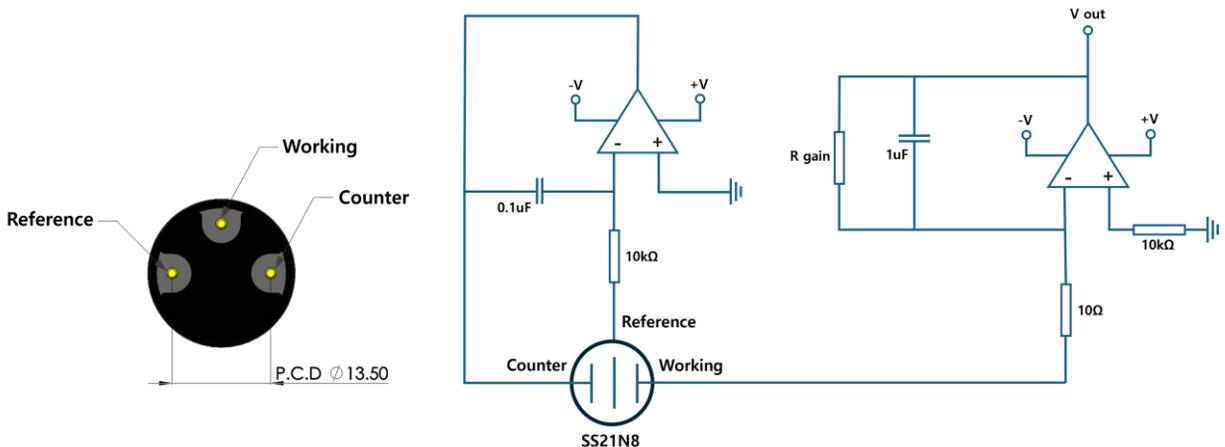
Temperature Effects



Cross Sensitivity

Gas	Concentration [ppm]	Reading [ppm]
Ammonia	100	100
Hydrogen Sulfide	100	<10
Carbon Dioxide	5,000	0
Carbon Monoxide	100	0
Hydrogen	50	<25
Nitrogen Dioxide	50	<40
Nitric Oxide	200	0

Standard Operating Circuit



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